This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-29 (canceled)

Claim 30 (new): An exhaust emission control method comprising passing exhaust through a particulate filter from an upstream side thereof to a downstream side thereof to trap exhaust particulate in said particulate filter, after passage through said particulate filter passing said exhaust along a catalyst downstream of said particulate filter, regenerating said particulate filter by combusting said trapped particulate and producing a combustion product from said combustion of said trapped particulate, using said combustion product to assist regeneration of said downstream catalyst, wherein said exhaust is diesel engine exhaust, and said particulate filter is a diesel particulate filter trapping diesel exhaust particulate, including soot, said downstream catalyst is an NO_x adsorber, said NO_x adsorber comprises an NO_x storage element and an NO_x catalyst, said NO_x storage element is selected from the group selected consisting of alkali and alkaline earth compounds, said compound is selected from the group consisting of oxide, carbonate and nitrate, said NO_x storage element is further selected from the group consisting of Ba, Li, Na, K and Ca, said combustion product is CO, and comprising providing said downstream NO_x adsorber in sufficiently close proximity to said diesel particulate filter to carry out a thermodynamic favorable reaction with said CO, and regenerating said downstream NO_x adsorber with said CO derived from said diesel particulate filter in said sufficiently close proximity thereto, said reaction includes $NO + CO \rightarrow 1/2N_2 + CO_2$, and comprising oxidizing soot in said diesel particulate filter, providing said downstream NO_x adsorber in sufficiently close proximity to said diesel particulate filter to further carry out the reaction according to said $NO + CO \rightarrow 1/2N_2 + CO_2$.

Claim 31 (new): The exhaust emission control method according to claim 30 comprising also generating CO_2 from said CO according to $O_2 + CO \rightarrow CO_2$.